

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

1-46 (Canceled).

47. (New) A wireless communication apparatus comprising:
a monitor that monitors, in each frame, the number of
transmission queuing cells that uplink storages and downlink
storages of a plurality of communication users each store; and
an allocator that allocates, in each frame, unit sub-slots
to the transmission queuing cells by repeating a first
circulation such that, upon an allocation occasion to the uplink
storages and downlink storages of the plurality of users, a unit
sub-slot is allocated to a transmission queuing cell with a
longest transmission queuing time in each storage.

48. (New) The wireless communication apparatus according
to claim 47, wherein the allocator allocates the unit sub-slot
preferentially to a particular transmission queuing cell in each
storage.

49. (New) The wireless communication apparatus according to claim 48, wherein the allocator provides, between each first circulation, a second circulation such that, upon an allocation occasion to the uplink storages and downlink storages of the plurality of users, the unit sub-slot is allocated only to the particular transmission queuing cell having the longest transmission queuing time in each storage.

50. (New) The wireless communication apparatus according to claim 49, further comprising an arranger that divides all unit sub-slots allocated to transmission queuing cells for uplink and downlink into an uplink sub-slot group and a downlink sub-slot group, groups the unit sub-slots by the communication users to which said unit sub-slots are allocated and makes channels, and arranges the channels in the unit frame as uplink and downlink user channels.

51. (New) The wireless communication apparatus according to claim 50, wherein:

the allocator comprises a comparator that performs a comparison between the total number of particular transmission queuing cells in each storage and a threshold; and

the allocator performs an allocation according to a result of the comparison.

52. (New) The wireless communication apparatus according to claim 50, wherein:

the allocator comprises a comparator that performs a comparison between transmission queuing times of particular transmission-queuing cells in each storage and a threshold; and

the allocator performs an allocation according to a result of the comparison.

53. (New) The wireless communication apparatus according to claim 51, wherein the comparator performs the comparison only in storages that store the particular transmission queuing cells.

54. (New) The wireless communication apparatus according to claim 52, wherein the comparator performs the comparison only in storages that store the particular transmission queuing cells.

55. (New) The wireless communication apparatus according to claim 53, wherein the comparator sets the threshold based on a quality requirement of the particular transmission queuing cells.

56. (New) The wireless communication apparatus according to claim 54, wherein the comparator sets the threshold based on a quality requirement of the particular transmission queuing cells.

57. (New) The wireless communication apparatus according to claim 47, wherein each frame comprises a terminal transmission queuing reporting signal part and a user information part, and, in the terminal transmission queuing reporting signal part, transmission queuing situation reporting signals corresponding to respective wireless terminals are each allocated a dedicated control channel.

58. (New) The wireless communication apparatus according to claim 57, wherein a second control channel is provided besides the dedicated control channels, and the control channels are used according to a delay characteristic requirement of each wireless terminal.

59. (New) A base station provided with a wireless communication apparatus, said wireless communication apparatus comprising:

a monitor that monitors, in each frame, the number of transmission queuing cells that uplink storages and downlink storages of a plurality of communication users each store; and

an allocator that allocates, in each frame, unit sub-slots to the transmission queuing cells by repeating a first circulation such that, upon an allocation occasion to the uplink storages and downlink storages of the plurality of users, a unit sub-slot is allocated to a transmission queuing cell with a longest transmission queuing time in each storage.

60. (New) A communication terminal apparatus performing wireless communications with a base station apparatus provided with a wireless communication apparatus, said wireless communication apparatus comprising:

a monitor that monitors, in each frame, the number of transmission queuing cells that uplink storages and downlink storages of a plurality of communication users each store; and

an allocator that allocates, in each frame, unit sub-slots to the transmission queuing cells by repeating a first circulation such that, upon an allocation occasion to the uplink storages and downlink storages of the plurality of users, a unit sub-slot is allocated to a transmission queuing cell with a longest transmission queuing time in each storage.

61. (New) A wireless communication method, comprising:
monitoring, in each frame, the number of transmission
queuing cells that uplink storages and downlink storages of a
plurality of communication users each store; and
allocating, in each frame, unit sub-slots to the
transmission queuing cells by repeating a first circulation such
that, upon an allocation occasion to the uplink storages and
downlink storages of the plurality of communication users, unit
sub-slots within a range that can be stored in a unit frame are
allocated to a transmission queuing cell with a longest
transmission queuing time in each storage.

62. (New) The wireless communication method according to
claim 61, further comprising:

performing a comparison between the total number of
particular transmission queuing cells in each storage and a
threshold; and

performing the allocation according to a result of the
comparison.

63. (New) The wireless communication method according to
claim 62, further comprising:

dividing all unit sub-slots allocated to transmission
queuing cells for uplink and downlink into an uplink sub-slot
group and a downlink sub-slot group;

grouping the unit sub-slots by the communication users to
which said unit sub-slots are allocated and making channels; and

arranging the channels in a unit frame as uplink and
downlink user channels and reporting the arrangement to the
communication users.